

Title (en)

OPTICAL UNIT AND IMAGING DEVICE EQUIPPED WITH SAME

Title (de)

OPTISCHE EINHEIT UND DAMIT AUSGESTATTETE BILDGEBUNGSVORRICHTUNG

Title (fr)

UNITÉ OPTIQUE ET DISPOSITIF D'IMAGERIE ÉQUIPÉ DE CELLE-CI

Publication

EP 3370094 A1 20180905 (EN)

Application

EP 16859520 A 20161006

Priority

- JP 2015213357 A 20151029
- JP 2016079821 W 20161006

Abstract (en)

There is provided an optical unit in which a position of an image plane can be set freely without widening a distance between two optical images, and an aberration is corrected. The optical unit includes an objective optical system which includes a plurality of lenses, and a splitting element which is disposed on an image side of the objective optical system. The splitting element includes in order from a side of the objective optical system, a first right-angle prism, a second right-angle prism, and a third right-angle prism, and has a surface of incidence and an optical splitting surface. The surface of incidence is provided to the first right-angle prism, and the first right-angle prism is positioned such that the surface of incidence is orthogonal to an optical axis of the objective optical system. The optical splitting surface is provided to the second right-angle prism. The second right-angle prism has a first optical path and the third right-angle prism has a second optical path. A first optical image and a second optical image are both formed on the same plane, and an area of the first optical image and an area of the second optical image are separated spatially.

IPC 8 full level

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CPC (source: EP US)

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Designated extension state (EPC)

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